

Issue 1 Volume 3

January 1985

\$1.00

Perp. Cal. (cont) Tas. Two Ref. Guide Jungle Jim: Display

Letters to Timelinez Computer Calendar N/L Exchange

Stringy Floppy Rev. Compuserve Buide. Rev. **Test-Bit Subroutine**

IMEX PETUAL ENDAR> < **₽** R

* DIRECTIONS * = MOVE FORWARD ONE MONTH

= MOVE BACK ONE MONTH

8 = MOVE FORWARD ONE YEAR

5 = MOVE BACK ONE YEAR

(SPACE BAR) = DIRECTIONS

OR ENTER NEW MONTH & YEAR

USE (#) KEY TO LPRINT MONTH

ENTER THE MONTH & YEAR DESIRED

SEP 1984

8				ũ	5	B
2	3	4	5	5	7	5
à	10	11	12	13	14	15
F 16	17	18	19	E 20	21	ΞΞ
23	24	E25	25	27	28	25
30						

Happy New Year!

Welcome to 1985! As the new year looks to be another year of suprises here is some news from the vine:

We all hope Rita is doing well after her stay in the hospital. Join me in wishing her a healthy new year.

The East Bay group is looking for a new President. If you are interested, come to the next meeting and let your voice be heard!

GUIDE ERENC

REGULAR CONTROLS

HELP MENU. CAPITALS LOCKED EDIT CAPS LOCK ENTER RETURN (NEXT LINE)

CURSOR MOVEMENT CURSOR BY WORD LEFT CURSOR BY WORD RIGHT **ARROWS** TRU VIDEO INV VIDEO

DELETE CHARACTER DELETE LINE INSERT LINE/CHARACTR DELETE NOT AND

> MOVE LINE TO LEFT MOVE LINE TO RIGHT < = > =

CENTER LINE < >

GO TO END OF TEXT GO TO START OF TEXT AT

SCROLL DOWN SCROLL UP TO THEN

REFORM PARAGRAPH TO SUZED/PRNT MENU STOP

EXTENDED CONTROLS

HELP MENU CURSOR MOVEMENT EDIT ARROUS

FAST SCROLL DOWN FAST SCROLL UP

SET LEFT MARGIN SET RIGHT MARGIN

D S RESET NORMAL MARGINS

CHANGE WINDOW REPLACE OR FIND TEXT

INSERT MODE: ON/OFF ÜE

HORD-WRAP ON/OFF RIGHT JUSTFY: ON/OFF

JUSTIFY LINE UNJUSTIFY LINE H

MARK TEXT BEGINNING MARK TEXT END MOVE TEXT COPY TEXT

ř

LARGE PRINTING: ON LARGE PRINTING: OFF PRINT TEXT

CLEAR TEXT FILE

95

w.d.g.

JAN 1985

IMELINEZ



You can have more fun with your 1000 or 1500 if you learn how the machine works. For example, by learning how information is stored inside the computer, you can learn how to change the information directly to get the results you want.

This month I continue my discussion of the "display file". I hope you have as much fun as I do making the computer do things which are unconventional, including self analysis!

Display File—Storage Form In memory there is an area known as the display file. It holds the codes for the characters which appear on the TV or monitor screen. The display file is stored according to strict rules. If these rules are not followed while the display file is being modified, the computer may lose your program.

The display begins at D_FILE. D_FILE is a system variable which holds the start address of the display file. The first character of the display file is always an ENTER (code = 118). From here, there are two ways the display file can be stored.

If you have fewer than 3.25K bytes of RAM (3328 bytes) then each line of display file will vary in length. There must always be an ENTER character

at the end of the line. There are 24 lines in the display. Each byte in the display file holds the code of the character to be printed at that spot in the display. Try this:

5 PRINT "JIM"

10 LET DFILE=PEEK 16396+256*PEEK 16397

20 FOR I=DFILE TO DFILE+20

30 PRINT PEEK I

40 NEXT I

Notice the 118's which mark the ends of lines on your screen. Also notice how the screen is constantly being changed as you run a program. This means your display file is expanding and contracting as you PRINT and CLS. If you have more than 3.25K and want to try this, then POKE 16389,72; press NEW ENTER and then enter the program.

If you have more then 3.25K (3327 bytes) memory, then the display file is stored differently. Now you have enough room so that the computer "expands" your display file to the maximum by adding spaces to all the lines. Each line has 32 bytes, then ends with an ENTER (118). Try this:

10 PRINT "JIM"
20 LET DFILE=PEEK 16396+256*PEEK 16397
30 FOR I=DFILE TO DFILE+100
40 PRINT PEEK I;"[]"
50 NEXT I

Note: [] enclosed is displayed in reverse video.

Notice all the spaces. Since each line is kept at 32 characters across plus the ENTER(118) character, the display file for machines with more than 3.25K remains a fixed size: the ENTER character at the start of the file, then 24 lines of 32+1 (ENTER) characters. This uses 1+24(32+1) = 792 bytes. The display file always takes up 792 bytes. However, it still moves around in memory each time you change a line in your program. See Memory Map. Knowing where your display file is and how it is stored is essential if you want to do Assembly language programming.

Copies of <u>The Timex/Sinclair User's Encyclopedia</u> are available for \$13.00 (includes postage and handling) from Jim March, 3216 Partridge Ave., Oakland, Ca., 94605 or for \$14.95 plus tax at bookstores (including Stacey's in Palo Alto and San Francisco).

HARDWARE REVIEW

TYPE:

A & J MODEL 2000 STRINGY FLOPPY

PURPOSE: FROM:

Mass Storage Device Knighted Computers 707 Highland Street Fulton, NY 13069 PH. 315-593-8219

For some reason my programs always use all of the 38K RAM on my TS 2068 computer so I looked forward to the arrival of the A & J Micro Drive which I purchased for \$203.00, delivery included. Since then, I have found it could be bought for about \$30.00 less at Pheonix Enterprises, 1788 N. Dupont Hywy. #17, Dover, Delaware 19981 (PH. 302-734-8179). In any event, this Micro Drive and interface is far cheaper than a disc drive and operates at 11,400 BAUD. I can load a 38K program in 45 seconds which is about 1/4 the time it took me using a cassette recorder. You can VERIFY your SAVES, SAVE CODE, SAVE DATA, everything else that you can do with a cassette recorder.

The interface plugs into the back of the TS 2068 and has convenient 18" long ribbon. You can piggyback your Modem and TS 2040 printer onto the interface.

CAUTION, do not connect your TS printer to the edge connector on top of the interface. Apparently, this port was meant for a Centronics printer and requires additional hardware to work (See Page 5, TSS NEWSNOTES DEC. 1984). The A & J Manual is easily understood, however, it does not tell you anything about the printer port. You can modify your programs in less than a minute to utilize the Stringy Floppy and it does not use any of your RAM. Knighted Computers also enclosed some additional information on how to convert auto start programs as well as Tom Wood's Pro/file so they can be SAVED.

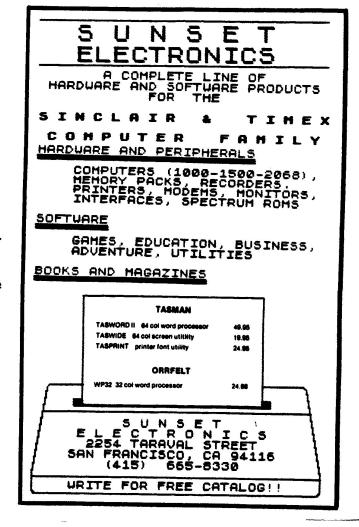
This unit comes with five wafers which have a capacity of 14, 28, 49, 70 and 85K. I prefer the 35' wafers which can store 49K and can be purchased for \$4.25 each. I think someone can run a mini-BBS using the 62' wafer that stores 85K.

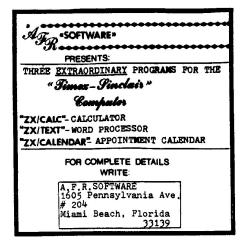
The bad news is I could not get the Floppy to work after I installed a Spectrum ROM chip. The Manual does not tell us the source code and maybe someone could figure out how to make this work.

I couldn't help but to compare this Micro Drive with the Stringy Floppy's from C.A.I. Instruments I have been using on my TS 1000 for two years. They are not interchangeable and the Model 2000 does not require you to put a lot of POKE's and USR calls in your program to make it work.

The unit has a 90 day warranty and I would strongly recommend its purchase.

Phil McConaghey, P.E. Pembroke Pines, FL 33023





200 REM
201 REM
202 REM
203 REM
203 REM
300 REM **A NEW HELPFUL HINT**
302 REM
304 REM **2068/SPECTRUM SCROLL*

*
306 REM
310 REM THE TS1000 SCROLL COMMA
ND CAN BE DUPLICATED ON THE 2068
WITH: RANDOMIZE USR 2361.
312 REM
320 REM THE ZX81 SCROLL COMMAND
CAN BE DUPLICATED ON SPECTRUM W
ITH: RANDOMIZE USR 3582

Perpetual Calendar Program

In the November issue of Timelinez we printed the Timex Perpetual Calendar program on page 86. However, we forgot to print the lines of the program after line 460. So, if you will bear with us, here is the whole program.

[Thanks to Jay Brockman, 713 San Juan #3, Sunnyvale, CA. 94086, for sharing this program with us]. Here's something special for you to do. A calender. A special TIMEX perpetual calender that will mark all the meeting dates in this area.

I needed one for my TS2868 so I keyed one in. The formulas I got from someplace else, but the print formatting is my own.

When the program signs on, there is only one option, and that is to key in a month and year such as -JAN1984- with no spaces. The computer must be in the upper case mode.

After you have keyed in the month, you must press ENTER, then the month of your choice will be dislplayed. When the month is on the screen you then have 5 options. You may, with with the arrow keys advance a month, go back a month, advance a year, or go back one year. The 30 key will COPY the screen for you.

For those that don't want to key this in, a copy will be avaiable to you from me for a measly \$3.50. Add .50 for mail order.

In LINE 460, the SNTWTF should be in inverse, use the shift 4 before, and shift 3 after each letter with three spaces at the beginning and 3 spaces between each letter. In LIMEs 490 thru 495, the spaces within the ""has to be the GRAPHIC shifted 8.

1# REM (c) 1984 BY JAY K BROCKM AN Version 4.# 29 RESTORE 3# CLS: DIN H(7): DIN N\$(12,3): DIN D(12): DIN A\$(15) 31 LET 1=# 32 FOR J=1 TO 7 33 READ H(J) 34 NEXT J 35 DATA 3,7,11,15,19,23,27 4# FOR a=1 TO 12 5# READ n\$(a),d(a) 6# NEXT a

78 DATA "JAN",31,"FEB",28,"MAR",31,"APR",38,"MAY",31,"JUN",38,"JUL",31,"AUG",31,"SEP",38,"OCT",31,"NOV",38,"DEC",31

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IMELINEZ

100 CLS: PRINT TAB 10; T I M E
X": PRINT TAB 5; "< P E R P E T U
A L >": PRINT TAB 5; "< C A L E
N D A R >": PRINT: PRINT TAB 7;
"* DIRECTIONS &"

120 PRINT "7 = MOVE FORWARD ONE MONTH": PRINT

138 PRINT "6 = MOVE BACK ONE MON TH": PRINT

140 PRINT "8 = MOVE FORWARD ONE YEAR": PRINT

15# PRINT "5 = NOVE BACK ONE YEAR": PRINT

168 PRINT * (SPACE BAR) = DIRECT IONS*: PRINT

178 PRINT "OR ENTER NEW MONTH & YEAR": PRINT

180 PRINT "USE (8) KEY TO LPRINT

185 PRINT : PRINT "ENTER THE MON TH & YEAR DESIRED"

198 IMPUT MS: LET Y=VAL MS(4 TO

266 FOR X=1 TO 12

210 IF M6(1 TO 3)=M6(X) THEN LE T M=X

226 NEXT X

240 IF Y(1 THEN 60 TO 30

25# LET D=1

26# LET C=INT ((Y-1)/166)

276 LET D=D+C436524

28# LET D=D+INT (C/4)

298 LET N=(Y-1)-C8166

366 LET D=D+N\$365

316 LET D=D+INT (N/4)

320 IF Y/100()INT (Y/100) THEN 60 TO 340

330 IF Y/466(>INT (Y/460) THEN 60 TO 360

340 IF Y/4<>INT (Y/4) THEN GO T 0 360

350 LET L=1

360 IF M=1 THEN 60 TO 410

37# FOR I=1 TO M-1

386 LET D=D+D(1)

39# IF I=2 THEN LET D=D+L

406 NEXT I

418 LET F=D-78INT (D/7)+1

448 IF M(>2 THEN LET L=8

445 CLS : PRINT "-----

458 PRINT TAB 11;NS(M);" ";Y
468 PRINT : PRINT " S N T
" N T F S"

475 LET J=F: LET K=8: LET AA=F: LET PO=8: LET PP=8

476 IF AA=1 THEN LET PO=1: LET

477 IF AA=2 OR AA=3 OR AA=4 OR A A=5 THEN LET PP=1 486 FOR D=1 TO D(M)+L

496 IF (k=3 AND j=1) THEN PRINT INVERSE 1; INK 2; TAB 6; P";d ; INVERSE 6;: LET j=j+1: 60 TO 5

491 IF PP=# THEN IF (k=3 AND j= 5) THEN PRINT INVERSE 1; TAB 17 ;" E";d; INVERSE #;: LET j=j+1: 60 TO 5##

492 IF PO=0 THEN IF (k=4 AND j= 3) THEN PRINT INVERSE 1; TAB 9; "S";d; INVERSE 0;: LET j=j+1: 6 0 TO 500

493 IF PO=1 THEN IF (K=5 AND J= 3) THEN PRINT INVERSE 1; TAB 9; "S";D; INVERSE 0;: LET J=J+1: 6 0 TO 500

494 IF PP=1 THEN IF (K=2 AND J= 5) THEN PRINT INVERSE 1; TAB 17 ;" E";D; INVERSE #;: LET J=J+1:

60 TO 500 495 IF (PO=1 AND D(M)=30) THEN IF (K=4 AND J=3) THEN PRINT IN VERSE 1;TAB 9;" S";D; INVERSE 0; : LET J=J+1: 60 TO 500

496 PRINT TAB h(j);d;

497 LET j=j+1: IF j=8 THEN LET J=1: PRINT: PRINT: LET k=k+1
498 IF PO=1 THEN IF K=6 THEN LET K=0

499 IF PO=# THEN IF K=5 THEN L ET K=#

560 IF (D+F-1)/7()INT ((D+F-1)/7) THEN GO TO 520

529 NEXT D

INT

536 LET L=6

550 LET M=0: LET X=0: LET Z=0 565 IF IN 63486=27 THEN GO SUB

57# IF IN 61438=15 THEN GO TO 7

58# 1F IN 61438=23 THEN 60 TO 7

590 IF IN 63486=15 THEN LET Y=Y -1: 60 TO 230

600 IF IN 61438=27 THEN LET Y=Y

618 IF IN 32766=38 THEN 60 TO 1

629 60 TO 565

718 LET M=M-1

728 IF N=8 THEN LET Y=Y-1: LET

M=12

73# 60 TO 23#

748 LET N=H+1

750 IF M=13 THEN LET Y=Y+1: LET

M= 1

76# 60 TO 23#

866 COPY : RETURN



IIMELINEZ

ing is because of a few changes to the RIVER CITIES SMART SSS. First, we just acquired a long hard-disk for the system, giving us almost unlimited room to make RIVER CITIES the SEST board in the United States!

CITIES the BEST board in the United States:
About a month ago we had the system crash because of a power surge. This made us rebuild the system from scratch. However, this gave us the oppertunity to make the board EVEN BETTER! He took the feature we liked, and added other ideas we had, like a complete QMLINE SAMES area. Where else do you know of a board that can offer "Zork" online? Or simulate the computer scenes from "MARSAMES"?

I took the opportunity to make the T/S SIS better, too. I added more features to the T/S Information Center, opened a very large Dounload Section (we will even have programs for the 1000/1500 !), and monthly drawings will be held for T/S

Now for a little bad news. Because of the expenses we Now for a little bad news. Because of the expenses we have incurred running this board (2 separate phone lines, \$1000.00 for the extra hard-disk, etc.), we are going to have to ask for a small one-time Lifetime Hembership Fee. All of the money we get will go into making the board even better; none of the money will go to us. He want to make RIVER CITIES a nationally-known source for T/S users.

BILL Janky
BILL FOTTOBOO
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- Bulletins with current news of interest to T/S users An Information Center

(with Articles, product reviews, a National list of T/B User Broups, Publications, Dealers, and more!)

And, for those with Smart Terminal software for Westridge or Byte-Back modemms

Programs that you can upload right into your computer! (For the 1000 and the 2068!)

Dear Timelinez

By now you will have had some experience with the Remswitch. an eagerly waiting for delivery on nine and have a question on it - hope you have the answer! Have you used it with the Aerce interface and have there been any problems with it? If there were problems to you have the solutions.

I's running by 2068 on Res. When using the schematic for the Res board in the 2068 Tech. Remual, if everything works except the screen is doing a fast herizontal rell (and the herizontal control is inside the menitor, as it is on most of thee) I have found that changing the wiring from the negative to the positive herizontal on the beard (or vice versa) will step the rell.

Is there anybody out there that has had experience with both Brafist and Bulti-Draw 2068 and could give a review on them?

I'm working my way through the Times Sinclair 2048 Intermediate! Advanced Guide by Mezur and would be happy to provide Timelinez with a review if nebody else is doing so.

J. Cohen POB 1240 Mendocine, 95460



PROGRAM FOR THE SPORT II SOFTMARE FOR 2068 BY PHIL MCCONAGIEY

Pirst enter the loading program shown \$6 few. SAVE the program to tape by GOTO 9 and EMPER. Remove the tape without rewinding, and put the SMART II tape in the recorder. Load as per the instructions provided. Remove the SMART II tape and put the first cassette back in. SAVE the SPART II by entering:

SAVE "MIERN II" CODE 54016. 11420

(You are allowed to make one copy for your

After saving press BNIER press C and make your settings; enter phone numbers etc. have found Duplex "FULL", Parity "EVEN" WORDSIZE "7", and stop Bits "1" connects me to all BBS's. I set the Line Feed Suppression and carriage return to "OFF" and the conversion to "NONE" (see Buffer Menu). Save the phone numbers by going to the MAIN MENU, and press S. Then press S and ENTER after starting your tape.

The next time you decide to use your modem, load the Loading Program and press RLN at the prompt, after the MEENN II is loaded, stop the tape, press EMER, S and L. Start the recorder and press EMER to load the settings and phone number

I have not been able to transmit the Buffer probably because I can't figure cut what to enter for the "Prompt String".

Finally, Lines 4 and 5 of the Loading Program "cleans up" the addresses from 61714 to 63264 where the phone numbers and settings are storad. Lines 1, 11 through 13 were developed by Linda Banta of Banta software.

LOADING PROGRAM

1 FEM FLASH CLS G THEN LN ()
2 LET X=VAL "54015"
3 LOAD ""CODE X
4 FOR NEVAL "61714" TO VAL "6 3264"
5 POKE N,32: NEXT N: GO SUB U
7 PRINT USE X: STOP
9 SAUE "HTERH" LIME UAL "12"
10 INK 2: FLSH 5GN PI: PRINT
AT 8,4 PRESET RUN" THEN "ENTE
R"": FLSH NOT PI:
11 LET P = VAL "USE (S+PEEK 2363
5+256+PEEK 23636)": LET Y=VAL "18 6383"
PRINTER OFF THEM PRINT AT 12,8;"
PRINTER OFF THEM PRINT AT 12,8;"
PRINTER ON"
14 SO SUB UAL "15": STOP
15 LET Z=UAL ".942": LET U=UAL
16 POR n=56N PI TO U
17 BEEP Z,2eU: PRUSE 2.8: BEEP
Z,U 20 MEXT N: RETURN

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JOYSTICK PORT HODIFICATION FROM THE T/S USERS GROUP OF CINCINNATI.

Well, it's been a while, but I finally brushed the dust off the table and decided to get back to work. At the October meeting, I demonstrated a simple modification to a 2068 to allow a trakball (ATARI compatable) to work through the player 2 joystick port (Figure 1). Timex made one change in the joystick input, possibly making it an output port as well to control their microdrive. Pin 7 is shown in the Third Party manual as an select line that goes to a logical low state when a joystick input is required by a program. This is fine to drive a joystick, but doesn't work for a trakball because it expects that line to go to ground. All that you have to do to make it work is to break the trace running from pin 7 of the joystick connector and run a jumper from pin 7 to ground (Pin 29 of the Z-80 Processor will do nicely). This will not affect the joystick performance.

TIMELINEZ NOTE:

We have also used this modification for a CARDKEY numeric teypad.

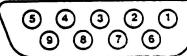
EDITOR'S NOTE:

If you turn the trakball over, you have a mouse!!!!

JOYSTICK CONNECTOR SIGNAL ASSIGNMENT

P/H	SIGNAL NAME	I/O PORT BIT	FUNCTION	
h	DIAL	0	STICK UP	
2	DIR2	1	STICK DOWN	
3	DINI	2	STICK LEFT	
	DIM4	3	STICK MIGHT	
5			not used	
6	BUTTON	7	PUSM BUTTON	
7	SV	=	5 WOLT POWER	
	READ STROAD		ADDRESS BIT & OR 9*	
[.]				
	CMD		POMER CROUND	

Withen Address Bit 8 is high, the READ strobe to the left joystick is driven low. When address Bit 9 is high, the READ scrobe to the right joystick is driven low.



TS 2040 PROGRAMMING

FROM THE SINC-LINK N/L OF TORONTO, ONTARIO.

Recognizing UDG's

As you know from the manual, there are 21 User Defineable Graphic characters which can be assigned from CODE 144 to CODE 164. To show what you are doing and to keep program LISTing as clear as possible, it's best to use the CHRS function rather than shifting to the Graphics mode.

18 PRINT CHRS 144; CHRS 145; CHRS 146

It's instantly recognizable as UDG's.

UD6 Loader

This routine is not in the manual but it saves a lot of typing time not using all the SIN values.

9888 FOR g=144 TO 164 (or less)
9818 FOR n=8 TO 7
9828 READ a: POKE USR CHR0 q + n,a
9838 NEXT n
9848 RESTORE : RETURN
9858 DATA......

Each data statement contains 8 numbers per line; each number is the decimal value for the binar, bits in UBS character row. Each data statement defines one character.

Fancy Titles

Assign a string to TS less than or equal to 32 characters for the title and a value to the variable "pa" less than 22 for PRINT AT line number:

-18 LET TO = "HERE IS A PROGRAM TITLE"
28 LET pa = 18
38 GOSUB 188
48 STOP

188 LET M = LEN TS : IF M/2 < > INT (M/2) THEN LET TS = TS + * * : LET M = M +1 118 FOR N = 1 TO M/2 : PRINT AT pa, 16-N; TS (TO N); TS (M - N + TO): SEEP .82.2 \pm N : NEXT N : RETURN

FROM THE SUM T/S N/L OF GRINESVILLE, FL.

FLASH!
POKES FOR SPECTRUM ROM
TASWORD WITH AERCO

For those who have converted their 2068s to run with the Spectrum ROM there is good news! Joe Williamson has discovered the pokes necessary to run the Spectrum version of Tasword II with the Aerco interface.

First load the Aerco software then the Tasword II program. Get into BASIC by holding down on the 'symbol shift key and pressing STOP. Select Basic from the menuthen type in the following pokes without line numbers, pressing enter after each line.

POKE 57999,127 POKE 58004,98 POKE 58008,127

Now return to Tasword II with RUN and ENTER. Save your new version of Tasword II as offered by the same menu which got you into Basic.

-- Richard Cravy

NEW COMPUSERVE GUIDEBOOK SAVES TIME AND MONEY FOR SUBSCRIBERS by Norm Lehfeldt

Whether you are an old hand on Compuserve or a neophyte intimidated by what appears to be an impenetrable electronic labyrinth, you will find something of value in "How To Get The Most Out Of Compuserve," a new Bantam book by Charles Bowen and David Peyton.

The authors are not Only experienced users of the giant data but 0150 veteran sysops (System Operators). Their book has which alternate between chapters those designed to be step-by-step guides to various sections of Compuserve while you are those Which ore leisurely explanations of what you have seen on your screen during the on-line sessions.

One of the ways in which this book excels over Compuserve's own publications is in its explicit directions for getting OUT of various sections of the network in an orderly fashion after you have gotten IN.

IF YOU are a newcomer to tele-computing, this book Will speed up your progress considerably by showing you how to dispense with Compuserve's timeand consuming menus as you become more adept. An especially useful feature of the book is an appendix dubbed *On-line Survival Kit. * Even if you On experienced Compuserve navigator YOU will .find quick-reference listing of the most useful commands invaluable while you are on-line.

You can order this book from the on-line ordering section of Compuserve, but it is also available in the computer sections of major book stores.

COMPUTER CALENDAR

FEBRUARY 1985

- 16 California Computer Swap Alameda County Fairgrounds
- 17 Peninsula User Group (415)359-3198 1 p.m.
- 21 East Bay Z80 User Group (415)234-3310 7:30 p.m.
- 26 Silicon Valley TS User Group (408)738-2888 X4536 7 p.m.

MARCH 1985

- 2-3 Computer Supermarket Show San Mateo County Fairgrounds 10 - 5pm \$7 (415)340-9113
- 17 Peninsula User Group (415)359-3198 1 p.m.
- 21 East Bay Z80 User Group (415)234-3310 7:30 p.m.
- 26 Silicon Valley TS User Group (408)738-2888 X4536 7 p.m.
- 30- The 10th West Coast Computer Apr Faire Moscone Center, SF 2 (617)965-8350

TIRES AND LOCATIONS MAY DIFFER, PLEASE CALL FIRST

2068 ROM Disassembly

Rumor has it that Bob Orrfelt of the Peninsula group has disassembled the 2068 ROM. His listing includes some comments and the Z80 code. How about some articles on the code? Or how a disassembly is done? What is a disassembly, anyway? How about it, Bob?



E B Z U G East Bay Z80 User Group 654 40th Street Dickmond, CA 94805 or 531-6566

PRESIDENT Joel Brody NEUSLETTER EDITOR RICL Link

EBZUG meets the third Thursday of each month at:

UEST BRANCH BERKELEY PUBLIC LIBRARY at the corner of University and San Pablo. Meetings start at 7:30 pm. Bring equipment and power Strips.

UPCOMING MEETINGS:

February 21, 1985 March 21, 1985 April 18, 1985



PENINSULA USER GROUP - PUG 263 Gateway No. 187 Pacifica, CA 94844 (415) 359-3198 or 333-2231

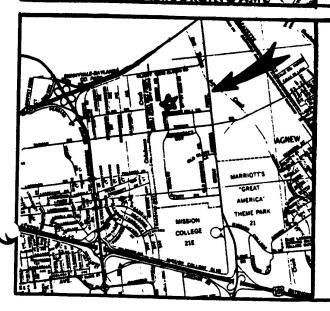
PRESIDENT George Hockridge Enter Editor George Hockridge

PUG meets the third Sunday of each month at:

PENINSULA HOSPITAL, 1783 EL CAHINO, BURLINGAME. 1 pm. Heet, room on lower level. Use Morth entrance. Bring equip. 4 extension cords if possible.

UPCOMING MEETINGS:

February 17, 1985 March 17, 1985 April 21, 1985



Silicon Valley SINCLAIR/INCIAX User Group (SV5/IUG) P.O. BOX 4133 Santa Clara, CA 95054-0133 (408) 738-2888 X4536

PRESIDENT Rita Carr NEUSLETTER EDITOR Bill Miller PRESIDENT

SUS/BUG meets the last Tuesday of each month at:

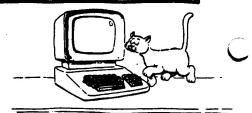
Dysan Corp. Headquarters 5201 Patrick Henry Drive Santa Clara, CA

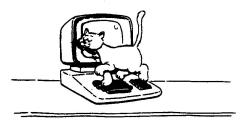
(Please use North entrance by the loading dock)

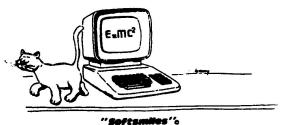
UPCOMING MEETINGS: February 26, 1985

March 26, 1985 April 30, 1985

1 REM **TEST-BIT SUBROUTINE** 2 REM BY JACK DOHANY 3 REM (415) 321-7684 4 REM S REM THE SUBROUTINE AT 100
ALLOUS USER TO DETERMINE WHETHER
A PARTICULAR BIT OF A SPECIFIED
BYTE IS ON(1) OR OFF(0).
6 REM ADJUST LINE 110 FOR 1000/2068. 8 REM LINES 10-80 DEMONSTRATE USE OF SUBROUTINE. 9 REM 10 CLS 20 PRINT AT 21,0; "ADDRESS: (0-6) 5535) INPUT ADDR 30 30 INPUT ADDR
32 LET ADDR=INT ADDR
34 IF ADDR<0 OR ADDR>65535 THE
N GO TO 30
36 PRINT ADDR
40 PRINT "BIT: (0-7) ";
50 INPUT BIT
52 LET BIT=INT BIT
54 IF BIT<0 OR BIT>7 THEN GO T 0 50 56 PRINT BIT 60 LET BYTE=PEEK ADDR 70 GO SUB 100 72 PRINT "LOC "; ADDR; " CONTAIN 5 DECIMAL "; BYTE 74 PRINT "BIT "; BIT; " = "; TEST 76 PRINT 78 PRINT 80 GO TO 20 97 REM 98 REM 99 REM 100 REM ****TEST-BIT****
102 REM NEEDS BYTE=0-255
103 REM NEEDS BIT=0-7
104 REM GIVES TEST = 0 OR 1 105 KET 110 LET X=INT (BYTE/2+BIT) 112 REM T51000: + = ++ 113 REM (+ = RAISE TO POWER) 120 LET TEST=X-INT (X/2)+2







Ingrem

FOR TS 2068 OWNERS, HERE IS INTERESTING LITTLE PROGRAMMING TECHNIQUE. IT IS BASED UPON AN ARTICLE BY MARK FENDRICK.

10>INPUT "ENTER SOME WORDS ";A \$ 20 INPUT #0; "ENTER ""2"" FOR S CREEN OR ""3"" FOR PRINTER ";5 30 PRINT #5;A\$'' 40 GO TO 20

WALT GABY

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